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THE CLINICAL CENTER
DIVISION OF RESEARCH GRANTS

April 24, 1956

Dr. Joshua Lederberg
The University of Wisconsin
College of Agriculture
Department of Genetics
Madison 6, Wisconsin

Dear Dr. Lederberg:

I have received your letter of April 17 through Dr. Kalckar. I heartily appreciated your information and suggestions on the culture of E. coli strains which you kindly brought to us in March.

I have grown these cells on glycerol-casein digest-yeast extract media, and have analyzed the distribution of galactose metabolizing enzymes. It was found that gal(+) strains contain appreciable activity of galactokinase, galactose-1-phosphate uridyl transferase, waldenase and pyrophosphate uridyl transferase, whereas all gal(-) strains tested (gal₁-, gal₆- and gal₇-) were proved to be missing galactose-1-phosphate uridyl transferase. The same picture applies to the cells grown on galactose-casein digests-yeast extract for the purpose of adaptation. I am now planning to test the distribution of the above enzyme system in the cells grown on synthetic media.

I am also very willing to test the above enzyme system in other gal-strains, hoping we can find some difference of the galactose metabolizing system among these different gal- strains. I shall be extremely happy if you can kindly sent us other gal-strains than gal₁-, gal₆- and gal₇-.

As to your question about the treatment of cells with BuOH, I enclose a copy of our note on the procedure obtained from Dr. R. Holmes.

Sincerely yours,

Kiyoshi Kurahashi

Kiyoshi Kurahashi

KK:lh

P.S. I'll be very grateful if you could spare reprints of your series of papers.